

# UTAH DIVISION OF OIL AND GAS CONSERVATION

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE ☒ WATER SANDS \_\_\_\_\_ LOCATION INSPECTED \_\_\_\_\_ SUB. REPORT/abd. \_\_\_\_\_

*The Entry approved 10/3/85*  
*Well name change 10/3/85*

DATE FILED 11-14-77

LAND: FEE & PATENTED \_\_\_\_\_ STATE LEASE NO. \_\_\_\_\_ PUBLIC LEASE NO. U-43646 INDIAN \_\_\_\_\_

DRILLING APPROVED: 11-14-77

SPUDED IN: 1979 (per BLM)

COMPLETED: \_\_\_\_\_ PUT TO PRODUCING: \_\_\_\_\_

INITIAL PRODUCTION: \_\_\_\_\_

GRAVITY A.P.I. \_\_\_\_\_

GOR: \_\_\_\_\_

PRODUCING ZONES: \_\_\_\_\_

TOTAL DEPTH: \_\_\_\_\_

WELL ELEVATION: \_\_\_\_\_

DATE ABANDONED: ~~10-16-79~~ LOCATION ABANDONED WELL NEVER DRILLED 1-27-87 LA'D

FIELD: ~~SAGE~~ GREATER CISCO

UNIT: \_\_\_\_\_

COUNTY: GRAND

WELL NO. ~~FEDERAL SUSSEX NO. 3~~ Sage 14-1

API NO: 43-019-30401

LOCATION 980' FT. FROM (N) ~~XX~~ LINE. 990' FT. FROM ~~XX~~ (W) LINE. SE NW NW 1/4 - 1/4 SEC.

935'

1035'

4

TWP. \_\_\_\_\_ RGE. \_\_\_\_\_ SEC. \_\_\_\_\_ OPERATOR \_\_\_\_\_

TWP. \_\_\_\_\_ RGE. \_\_\_\_\_ SEC. \_\_\_\_\_ OPERATOR \_\_\_\_\_

20S,

24E

14

WALTER D. BROADHEAD

11-2-78 - Talked w/ USGS; they haven't received  
any reports - 'Request' Monitory Rpt. of OP  
11-2-78

#### FILE NOTATIONS

Entered in NID File .....  
Location Map Pinned .....  
Card Indexed .....

Checked by Chief .....  
Approval Letter .....  
Disapproval Letter .....

#### COMPLETION DATA:

Date Well Completed .....

Location Inspected .....

DW..... WW..... TA.....

Bond released

GW..... OS..... PA.....

State or Fee Land .....

#### LOGS FILED

Driller's Log.....

Electric Logs (No.) .....

E..... I..... Dual I Lat..... GR-N..... Micro.....

WC Sonic GR..... Lat..... MI-L..... Sonic.....

CBLog..... (CLog..... Others.....

10-26-90  
Jee

Monthly Dec '77 - Sept '78

Spud letter

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY(Other instructions on  
reverse side)

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Walter D. Broadhead

## 3. ADDRESS OF OPERATOR

1645 North 7th St. Grand Junction, Colorado 81501

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

980 ft. South of the North line and 990 ft. East

of the West line of said Sec. 14.

At proposed prod. zone SE NW NW 980 FWL & 990 FWL

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

7 Mile Northeast of Cisco, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

330'

## 16. NO. OF ACRES IN LEASE

1428.15

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

10

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

800

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

## 22. APPROX. DATE WORK WILL START\*

November 20, 1977

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-3/4"	7" new	17 lb.	100'	25 SX Circulated
6-1/4"	4-1/2" new	9.5 lb.	800'	40 SX

Surface Formation: MANCOS

Propose to test Dakota &amp; Cedar Mountain Formations

Surface Use Plan Attached:

Dakota 450 Oil Note: Water Sands not anticipated

Buckhorn 750 Oil

Pressure Control: Schematic attached showing BOP, Kill lines, check valves  
and pressure ratings. Seven Point Plan also attached.

Logging: IES and FDC. No Coring Planned

Hazards: Experience does not indicate that abnormal pressures or Hydro-  
gen Sulfide will be encountered.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

Walter D. Broadhead

TITLE

operator

DATE

11-7-77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

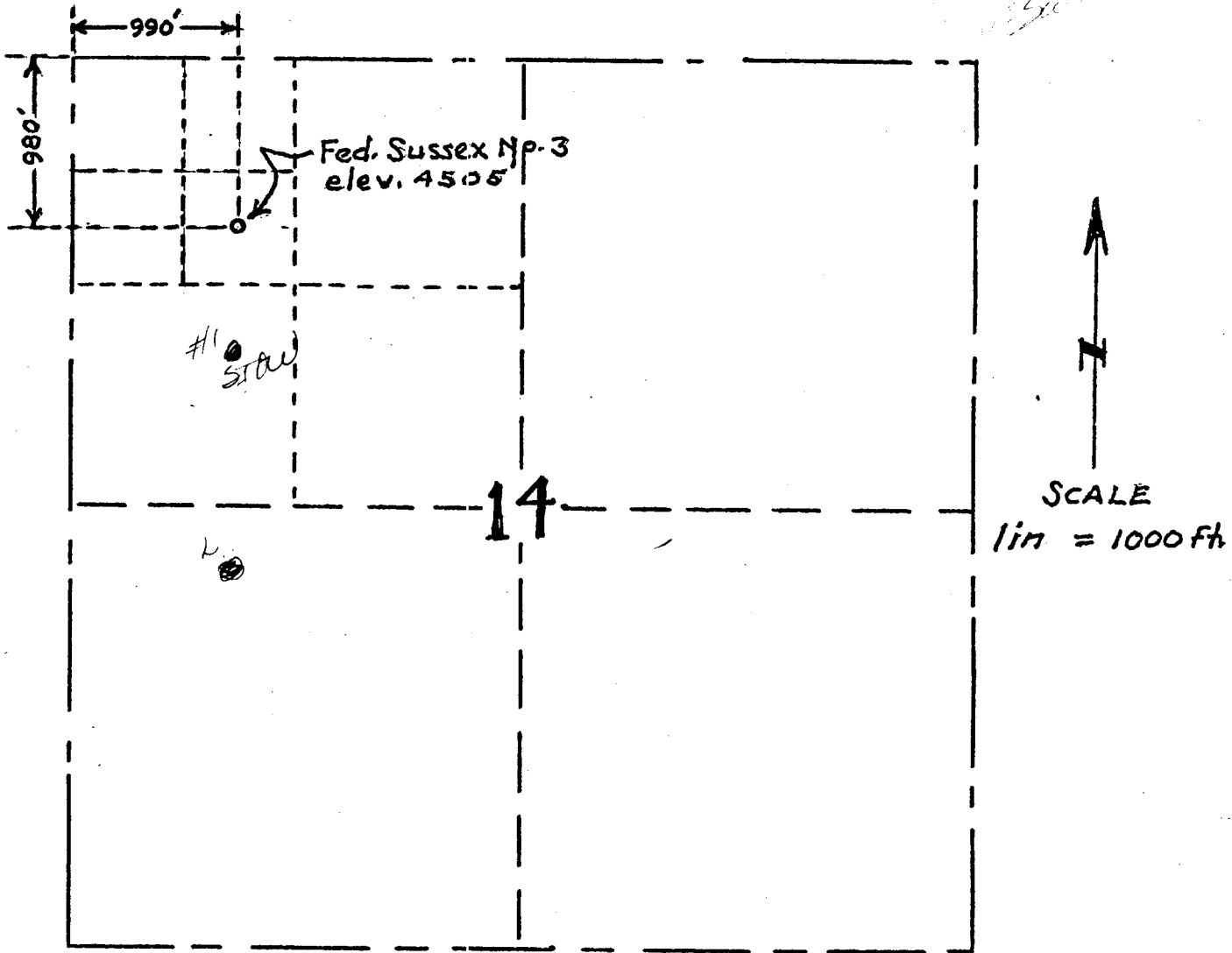
DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

WELL LOCATION  
Fed. Sussex No. 3  
in the

SE 1/4 NW 1/4 NW 1/4 of Sec. 14, T20S, R24E of the S.L.M.  
980 ft. South of the North line and 990 ft. East of the  
West line of said Sec. 14



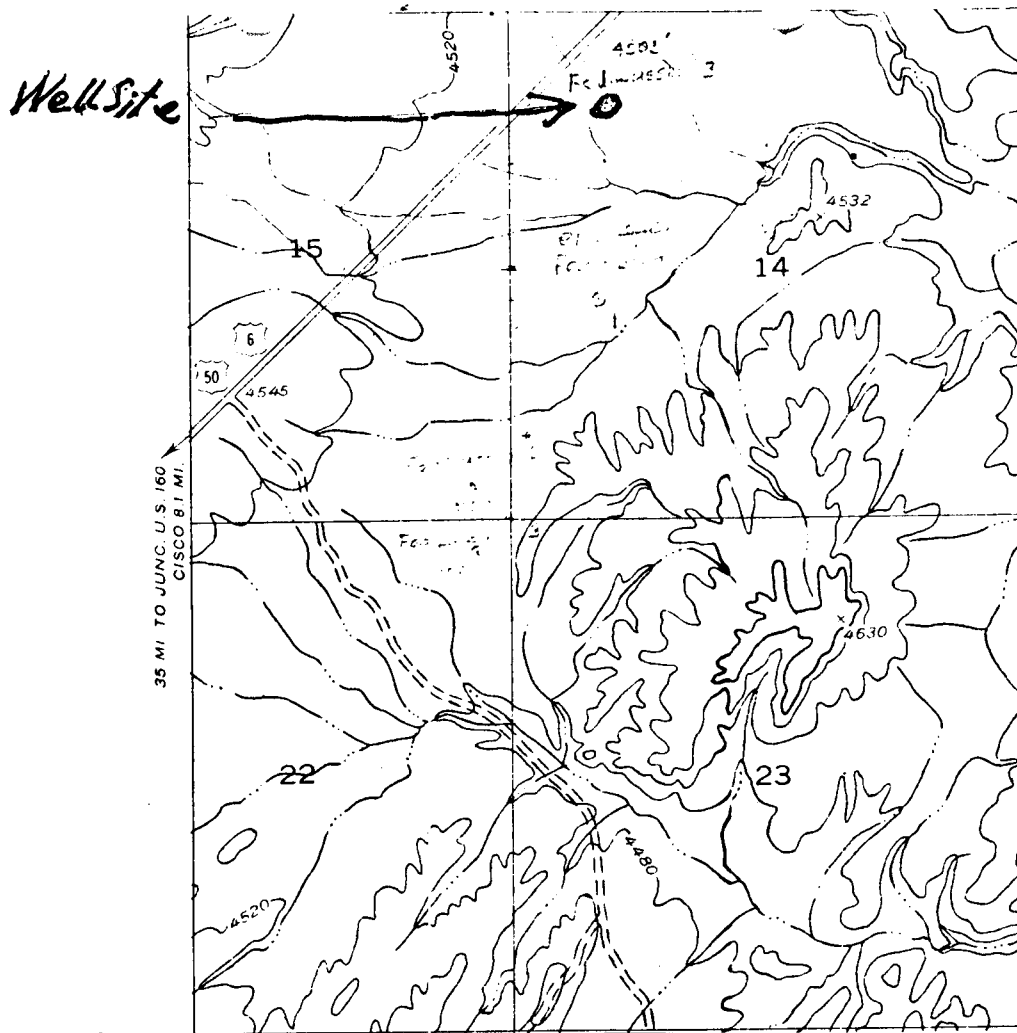
Oct 14, 1977

Surveyed, drawn and certified by H. D. Clark

Signed Henry Denison Clark

Colo. Reg. Land Surveyor No. 689





# LOCATION AND VICINITY MAP

FOR

COMPANY Walter D. Broadhead

LEASE U- 17606

WELL NO. Feb Sussex No. 3

SEC. 14 T 20S R 24E.

LOCATION 990 FEET FROM West LINE

2970 FEET FROM South LINE

ELEVATION \_\_\_\_\_ GR

USGS QUADRANGLE Westwater 4 SW Plot

Walter D Broadhead

WALTER BROADHEAD  
1645 N. 7th St.  
Grand Junction, Colorado 81501

Re: Well No. Fed. Sussex No 3

Sec. 14, T20S, R24E, SLB&M

Grand County, Utah

Lease: 16-17606

PRESSURE MONITORING AND CONTROL DATA  
SEVEN POINT PLAN

1. Surface Casing: Set at ~~200'~~ 100'  
Size 7"  
Weight 17 lb.  
Length Range 2  
Grade J-55 new. Tested to 3000 psig.
2. Casing Heads:  
Series 600 - 1500 psi working pressure.
3. Production Casing:  
Size 4-1/2"  
Weight 9.5 lb.  
Length Range 3  
Grade J-50, new, tested to 3000 psig.
4. Pressure Control:  
BOP Regan Torus BOP  
Series 600 - Tested to 3000 psig.  
Rams One size fits all - even blind.  
Will use fill, kill and choke lines.
5. Auxiliary Pressure Control:
  - a. Kelly cocks.
  - b. Check valve at bit.
  - c. Monitoring equipment on mud system.
  - d. A sub on floor with a full opening valve to be stabbed into drill pipe when Kelly is out of string.
6. Anticipated Bottom Hole Pressure:  
550 psig.
7. The Type of Drilling Fluid:  
Air until gas encountered. GEL  
Mud up with ~~Polymer~~ mud with NaCl and CaCl<sub>2</sub> as weighting agent - 10.5 to 11.00 lb. per gal. as required.

WALTER BROADHEAD  
1645 N. 7th St.  
Grand Junction, Colorado 81501

Re: Well No. Fed-Sussex No. 3  
Sec. 14, T20S, R24E, SLB&M  
Grand County, Utah  
Lease: 11-17601

SURFACE USE PLAN

Geographical: 8 miles east of Cisco, Utah

Terrain: Low, rolling hills of Mancos shale.

Vegetation: Very sparse.

Surface Water: None. This is dry, desolate, desert country.

1. Existing Roads: Existing roads are 15-18 feet wide, with native ground as surface material. This is primarily Mancos shale with a little Cretaceous gravel in some places.

The included map shows all access roads and roads within a several mile radius of the locations.

There are no immediate plans for improvement of existing roads. If commercial production is found and road improvement is needed, it will be considered at the appropriate time.

2. Planned Access Roads: The map indicates all necessary access roads be constructed which will be to the same physical characteristics as existing roads - 15-18 feet wide with native Mancos Shale as surface with maximum grades not to exceed 3-4%. There will be no culverts required and no major cuts and fills required for access to any of the wells applied for. No fence cuts or cattle guards will be required.
3. Location of Existing Wells: As you can see from the map, existing wells have been located upon the map. The status of the wells is generally indicated on the map by the manner in which the well is marked. There are no water wells or disposal wells. The wells applied for in this application have been referenced in two directions with reference stakes set at 100 and 150 feet in two directions giving a total reference of 300 feet for each well.

## SURFACE USE PLAN (con't.)

### 4. Location of Existing and/or Proposed Facilities:

- a) There are no tank batteries off of well locations within a one mile radius of the proposed locations. Gas gathering lines are indicated on the attached map.
- b) If production is found, storage facilities will be located on the location. If gas is discovered in commercial quantities, necessary pipelines will be applied for at that time.

Complete protective measures such as fences will be used to protect livestock and wildlife in the area.

- c) Rehabilitation of all disturbed areas no longer needed after construction is completed will be returned to smooth contour and all debris will be cleaned up. All pits will be covered and cleaned up after drill operations. Those pits required for production will be fenced.

### 5. Location and Type of Water Supply: Water will be acquired from the Colorado River, which is about 5 miles southwest of Cisco, Utah. Water will be transported by truck. Existing roads will be used to transport water.

No water well will be drilled on the lease.

### 6. Source of Construction Materials: No construction materials such as sand, gravel, stone and soil will be used other than that found in the native location.

In the event that tanks and production equipment are required, gravel will be hauled from Grand Junction, Colorado to set tanks on. This gravel will be purchased from private enterprise.

### 7. Methods for Hauling Waste Disposal:

- a) Cuttings - The hole will be 90% air drilled and cuttings will be blown out on the ground. These cuttings will be smoothed out and integrated into the native ground surface.
- b) Drilling Fluids - Will be contained in steel mud tanks. A dirt pit will be dug to contain excess flow out of the well during cementing and completion operations. Of course, these pits will be cleaned up and covered up.
- c) Produced Fluids such as Oil and Water - Will be properly disposed of with oil being stored in tanks and water being diverted to the pit and disposed of as required.
- d) Sewage - There will be no sewage generated by the short drilling operations.
- e) Garbage and Other Waste Material - Will be contained in 30 gallon galvanized garbage cans and hauled off the location.

SURFACE USE PLAN (con

- f) As stated before, the entire well site area will be properly cleaned up and restored to smooth contour when the rig moves out. Only that part of the location required for production operations will be kept in use. In the event of a dry hole, the only appurtenance left at the location will be the required dry hole marker.
- 8. Ancillary Facilities: There will be no camps or air strips required for this drilling operation.
- 9. Well Site Layout: A plat on a scale of 1" = 20' is included with the application showing location and orientation of the drilling rig, mud tanks, reserve pit, pipe racks and other appurtenances to the operation. For the time being pits will be unlined as allowed by present law. The only water introduced into these pits will be fresh water used in the drilling operation.
- 10. Plans for Restoration of Surface: As stated before, the entire location will be restored to smooth contour. Also stated, the vegetation in this desert area is extremely sparse and it is quite doubtful that revegetation would be practical at all.

It is intended to have all locations cleaned up within 30 days after operations are concluded.

11. Other Information:

- a) The topography of these locations near Cisco, Utah is a very gentle rolling, flat characteristic. The soil is raw Mancos shale with extremely sparse vegetation. A few coyotes, prairie dogs and cottontail rabbits occupy the entire area.
- b) The only other surface use activities other than petroleum exploration in the area is in spring grazing of the sparse vegetation by cattle and sheep.
- c) The proximity of water has been described at the Colorado River which is about 5 miles southwest of Cisco, Utah. The only occupied dwellings are at Cisco, Utah, which has been located already. There will be no disturbance to archeological, historical or cultural sites by drilling the applied-for wells in the present applications. The land is under the jurisdiction of the Bureau of Land Management.

12. Operator's Representative:

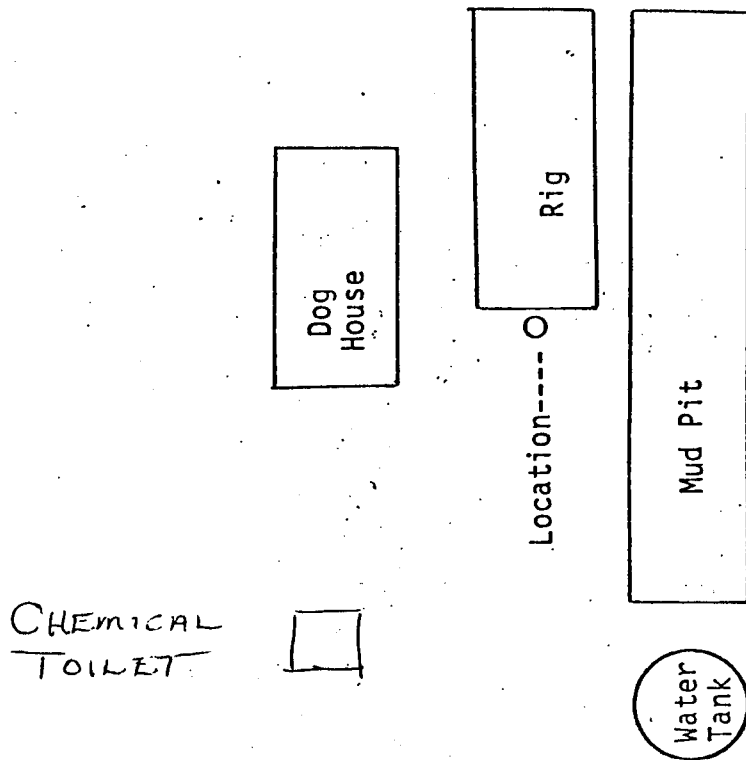
Walter D. Broadhead  
1645 North 7th Street  
Grand Junction, Colorado 81501  
(303) 242-7717

13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Walter Broadhead in conformity with this plan and the terms and conditions under which it is approved.

*Nov 5 1977*  
Date

*Walter D Broadhead*  
Walter D. Broadhead  
Consulting Engineer

# WELL SITE LAYOUT



Scale 1" = 10 Feet

## DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: **Utah Land Office**  
SERIAL NO.: **U 17606**

and hereby designates

NAME: **Walter D. Broadhead**  
ADDRESS: **6145 N. 7th Street**

**Grand Junction, Colorado 81501**

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

**U-17606**

**Sec 4 N $\frac{1}{2}$  SE $\frac{1}{4}$**

**Sec 6 Lot 3, NE SW**

**Sec 7 NW $\frac{1}{4}$**

**Sec 14 N $\frac{1}{2}$  NW $\frac{1}{4}$ , NW $\frac{1}{4}$  NW $\frac{1}{4}$**

**Sec 15 SE $\frac{1}{4}$**

**Sec 24 SW $\frac{1}{4}$**

**Acres 1428.15**

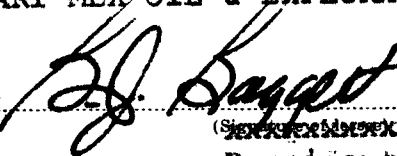
It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

**ARI-MEX OIL & EXPLORATION, INC.**

BY

  
(Signature)  
**President**

**Jan. 15, 1977**  
(Date)

**Box 249 Moab, Utah 84532**  
(Address)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**\*\* FILE NOTATIONS \*\***

Date: Nov. 10 -  
Operator: Walter D. Broadhead  
Well No: Fed. Sussex #3  
Location: Sec. 14 T. 20S R. 24E County: Grand

File Prepared: ☐ Entered on N.I.D.: ☐  
Card Indexed: ☐ Completion Sheet: ☐

API NUMBER: 43-019-30401

CHECKED BY:

Administrative Assistant SW

Remarks: #1, 1/4 NW 1/4 SW, Location; #1 NE 1/4 NW 1/4 SW

Petroleum Engineer AC

Remarks:

Director \_\_\_\_\_

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: OK

Survey Plat Required: ☐

Order No. 102-5

Surface Casing Change ☐  
to \_\_\_\_\_

Rule C-3(c), Topographic exception/company owns or controls acreage  
within a 660' radius of proposed site ☐

O.K. Rule C-3 ☐

O.K. In \_\_\_\_\_

Unit ☐

Other:

Letter Written/Approved

November 14, 1977

Walter D. Broadhead  
1645 N. 7th Street  
Grand Junction, Colorado 81501

Re: Well No. Fed. Sussex No. 3  
Sec. 14, T. 20 S, R. 24 E,  
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued in Cause No. 102-5.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer  
HOME: 582-7247  
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API NUMBER assigned to this well is 43-019-30401

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT  
Director

cc: U.S. Geological Survey

RECEIVED

JAN 10 1978

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GAS & MINING GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Walter D. Broadhead

## 3. ADDRESS OF OPERATOR

1645 North 7th St. Grand Junction, Colorado 81501

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface <sup>From</sup>  
980 ft. South of the North line and 990 ft. East  
935 ft. of the West line of said Sec. 14.  
At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

7 Mile Northeast of Cisco, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

330'

## 16. NO. OF ACRES IN LEASE

1428.15

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

10

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

800

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

## 22. APPROX. DATE WORK WILL START\*

November 20, 1977

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-3/4"	7" new	17 lb.	100'	25 SX Circulated
6-1/4"	4-1/2" new	9.5 lb.	800'	40 SX

Surface Formation: MANCOS

Propose to test Dakota &amp; Cedar Mountain Formations

Surface Use Plan Attached:

Dakota 450 Oil Note: Water Sands not anticipated

Buckhorn 750 Oil

Pressure Control: Schematic attached showing BOP, Kill lines, check valves  
and pressure ratings. Seven Point Plan also attached.

Logging: IES and FDC. No Coring Planned

Hazards: Experience does not indicate that abnormal pressures or Hydro-  
gen Sulfide will be encountered.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

## 24.

SIGNED

*Walter D. Broadhead*

TITLE

operator

DATE

11-7-77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

(ORIG. SGD.) E. W. GUYNN

TITLE

DISTRICT ENGINEER

DATE

JAN 06 1978

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

\*See Instructions on Reverse Side

State of Utah, Department of Natural Resources  
Division of Oil, Gas, and Mining  
1588 W. 1st N. Salt Lake City, Utah 84116

DATE Dec 2, 1977

☒ MAJOR IMPACT

**Phy. Charact.**

LEASE LI-17606DATE Dec 2, 77WELL NO. Fed SUSSEX N° 3LOCATION: NW ¼ NW ¼, SEC. 19, T. 20S, R. 24EFIELD SAGE COUNTY Grand STATE UTENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-BI. PROPOSED ACTIONWalter Broadhead  
(COMPANY)

PROPOSES TO DRILL AN OIL AND

GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 800 FT. TD. 2) TO CONSTRUCT ADRILL PAD 50 FT. X 125 FT. AND A RESERVE PIT 6 FT. X 25 FT.

3) TO CONSTRUCT \_\_\_\_\_ FT. WIDE X \_\_\_\_\_ MILES ACCESS ROAD AND UPGRADE

\_\_\_\_\_ FT. WIDE X \_\_\_\_\_ MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD. TO CONSTRUCT

☐ GAS ☒ OIL PRODUCTION FACILITIES ON THE DISTURBED AREA FOR THE DRILL PADAND ☐ TRUCK ☐ TRANSPORT THE PRODUCTION THROUGH A PIPELINE TO A TIE-IN IN  
NOT KNOWN at this time

SECTION \_\_\_\_\_, T. \_\_\_\_\_, R. \_\_\_\_\_

2. LOCATION AND NATURAL SETTING (EXISTING ENVIRONMENTAL SITUATION).

(1) TOPOGRAPHY: ☐ ROLLING HILLS ☐ DISSECTED TOPOGRAPHY ☒ DESERT  
OR PLAINS ☐ STEEP CANYON SIDES ☐ NARROW CANYON FLOORS ☐ DEEP DRAINAGE  
IN AREA ☐ SURFACE WATER Well site is approx 500' from interstate Hwy -

(2) VEGETATION: ☒ SAGEBRUSH ☐ PINION-JUNIPER ☐ PINE/FIR ☐ FARMLAND  
(CULTIVATED) ☒ NATIVE GRASSES ☐ OTHER \_\_\_\_\_

(3) WILDLIFE: ☐ DEER ☐ ANTELOPE ☐ ELK ☐ BEAR ☒ SMALL  
MAMMAL ☒ BIRDS ☐ ENDANGERED SPECIES ☐ OTHER \_\_\_\_\_

(4) LAND USE: ☐ RECREATION ☒ LIVESTOCK GRAZING ☐ AGRICULTURE  
☒ MINING ☐ INDUSTRIAL ☐ RESIDENTIAL ☒ OIL & GAS OPERATIONS

MINING CLAIM ON DRILL PAD - Discovery map # 25/26

filed by William Walker May 22, 1977.

(What our action should be in regard to this is not clear to me)

REF: BLM UMBRELLA EAR

USFS EAR

OTHER ENVIRONMENTAL ANALYSIS

3. Effects on Environment by Proposed Action (potential impact)

1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.

4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.

5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.

6) NO LARGE PAD AREA will be cleared except area large enough to park rig on.

7) NO NEW ROADS will be constructed as access to drill site is over existing pipe line access roads. Gas Pipeline within 50' of drill hole.

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS. NO ALTERNATE LOCATION ON THIS LEASE WOULD JUSTIFY THIS ACTION.

3) LOCATION WAS MOVED 64 NE' TO AVOID OTHER Gas Pipeline.  
☐ LARGE SIDEHILL CUTS ☐ NATURAL DRAINAGE ☒ OTHER Gas Pipeline.  
moved to be at least 125' from pipeline -  
4)

5. Adverse Environmental Effects which Cannot Be Avoided

1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.

4) TEMPORARY DISTURBANCE OF LIVESTOCK.

5) MINOR AND SHORT-TERM VISUAL IMPACTS.

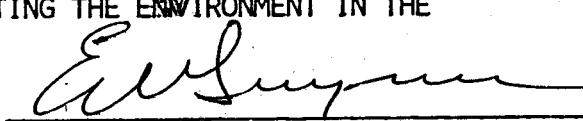
6)

6. DETERMINATION:

(THIS REQUESTED ACTION ~~DOES~~ DOES NOT) CONSTITUTE A MAJOR FEDERAL ACTION SIGNIFICANTLY AFFECTING THE ENVIRONMENT IN THE SENSE OF NEPA, SECTION 102(2) (C).

DATE INSPECTED Dec 2, 77

INSPECTOR Evans

  
U. S. GEOLOGICAL SURVEY  
CONSERVATION DIVISION - OIL & GAS OPERATIONS  
SALT LAKE CITY DISTRICT

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
WALTER D. BROADHEAD FED SUSSEX No. 3	980' FNL & 990' FWL (NW $\frac{1}{4}$ NW $\frac{1}{4}$ ) SEC. 14, T. 20S, R. 24E, SLM GRAND COUNTRY, UTAH	U-17606
<p>1. Stratigraphy and Potential Oil and Gas Horizons. The well will commence in Mancos Shale. The operator plans to test the Dakota and Cedar Mountain Formations. Estimated tops by operator appear reasonable.</p> <p>2. Fresh Water Sands. Fresh or usable water could occur in the sands of the Mancos Shale, Dakota Sandstone and the conglomerate member of the Cedar Mountain Shale although operator has indicated that fresh water sands are not expected.</p> <p>3. Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.) Land is considered valuable prospectively for coal found in the Ferron Sandstone member of the Mancos Shale. Coals if present probably have only marginal value.</p> <p>4. Possible Lost Circulation Zones. Unknown.</p> <p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. Unknown.</p> <p>6. Possible Abnormal Pressure Zones and Temperature Gradients. Operator does not anticipate abnormal pressures.</p> <p>7. Competency of Beds at Proposed Casing Setting Points. Weathered shale will be cased off.</p> <p>8. Additional Logs or Samples Needed. None.</p> <p>9. References and Remarks Within 2 mile radius of KGS.</p>		
Date: November 14, 1977		Signed: R.E.G.



SCOTT M. MATHESON  
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(301) 533-5771

I. DANIEL STEWART  
*Chairman*

CHARLES R. HENDERSON  
JOHN L. BELL  
THADIS W. BOX  
C. RAY JUVELIN

CLEON B. FEIGHT  
*Director*

August 23, 1978

Walter D. Broadhead  
1645 North 7th Street  
Grand Junction, Colorado 81501

Re: Well No. Federal Sussex #3  
Sec. 14, T. 20S, R. 24E,  
Grand County, Utah

Gentlemen:

In reference to above mentioned well, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intent to drill this well, please notify this Division. If spudding or any other activity has taken place, please send necessary forms.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

KATHY AVILA  
RECORDS CLERK



CALVIN L. RAMPTON  
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple  
Salt Lake City, Utah 84116

GUY N. CARDON  
Chairman

CHARLES R. HENDERSON  
ROBERT R. NORMAN  
JAMES P. COWLEY  
HYRUM L. LEE

CLEON B. FEIGHT  
Director

November 2, 1978

Walter D. Broadhead  
1645 North 7th Street  
Grand Junction, Colorado 81501

Re: WELL NO. FEDERAL SUSSEX #3  
Sec. 14, T. 20S, R. 24E,  
Grand County, Utah  
December 1977 thru' September 1978

*Terminate  
app. after 1 more  
letter*

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months indicated above on the subject well(s).

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

KATHY OSTLER  
RECORDS CLERK



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

CLEON B. FEIGHT  
Director

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

August 7, 1979

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON  
Chairman

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
CONSTANCE K. LUNDBERG  
EDWARD T. BECK  
E. STEELE McINTYRE

Walter D. Broadhead  
1645 North 7th Street  
Grand Junction, Colorado 81501

Re: Well No. FEDERAL SUSSUX #3  
Sec. 14, T. 20S, R. 24E,  
Grand County, Utah  
SECOND REQUEST

Gentlemen:

In reference to above mentioned well, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill this well, please notify this Division. If spudding or any other activity has taken place, please send necessary forms.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

*Kathy Avila*

KATHY AVILA  
RECORDS CLERK

*This well was Never Drilled*  
*Walter D Broadhead*

March 5, 1980

Walter D. Broadhead  
1645 N. 7th St.  
Grand Junction, colorado 81501

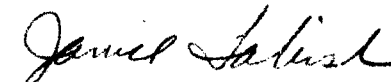
Re: Well No.Fed. Sussex #3  
Sec. 14, T. 20S. R. 24E.  
Grand County, Utah

Approval to drill the above mentioned well, which was granted in our letter of 11-14-77, is hereby terminated for failure to spud it within a reasonable period of time.

If and when you should decide to drill this well, it will be necessary for you to again obtain the approval of this Division.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING



JANICE TABISH  
CLERK TYPIST

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 12. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER ☐SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Walter D. Broadhead

## 3. ADDRESS OF OPERATOR

1645 North 7th St. Grand Junction, Colo. 81501

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface  
930 ft. south of the North line and 990 ft. east of  
935 the West line of said Sec. 14.  
At proposed prod. zone

From East of NW/NW

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

7 miles Northeast of Cisco, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

330'

## 16. NO. OF ACRES IN LEASE

1428.15/1106

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

800

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

10

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4505'

## 22. APPROX. DATE WORK WILL START\*

Sept. 8, 1985

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

OCT.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-3/4"	7" new	17 lb.	100'	25 SX
6-1/4"	4-1/2" new	9.5 lb.	800'	40 SX

Surface Formation: MANCOS

Propose to test Dakota &amp; Cedar Mountain Formations

Surface Use Plan Attached:

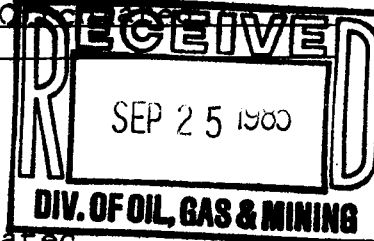
Dakota 450 Oil Note: Water Sands not anticipated

Buckhorn 750 Oil

Pressure Control: Schematic attached showing BOP, Kill lines, check valves and pressure ratings. Seven Point Plan also attached.

Logging: IES and FDC. No coring planned

Hazards: Experience does not indicate that abnormal pressure or Hydrogen Sulfide will be encountered.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

Walter D. Broadhead

TITLE

Operator

DATE Aug. 28, 1985

(This space for Federal or State office use)

PERMIT NO.

43-019-30401

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

APPROVED BY

TITLE

DATE: 10/3/85

BY: John K. Dugan

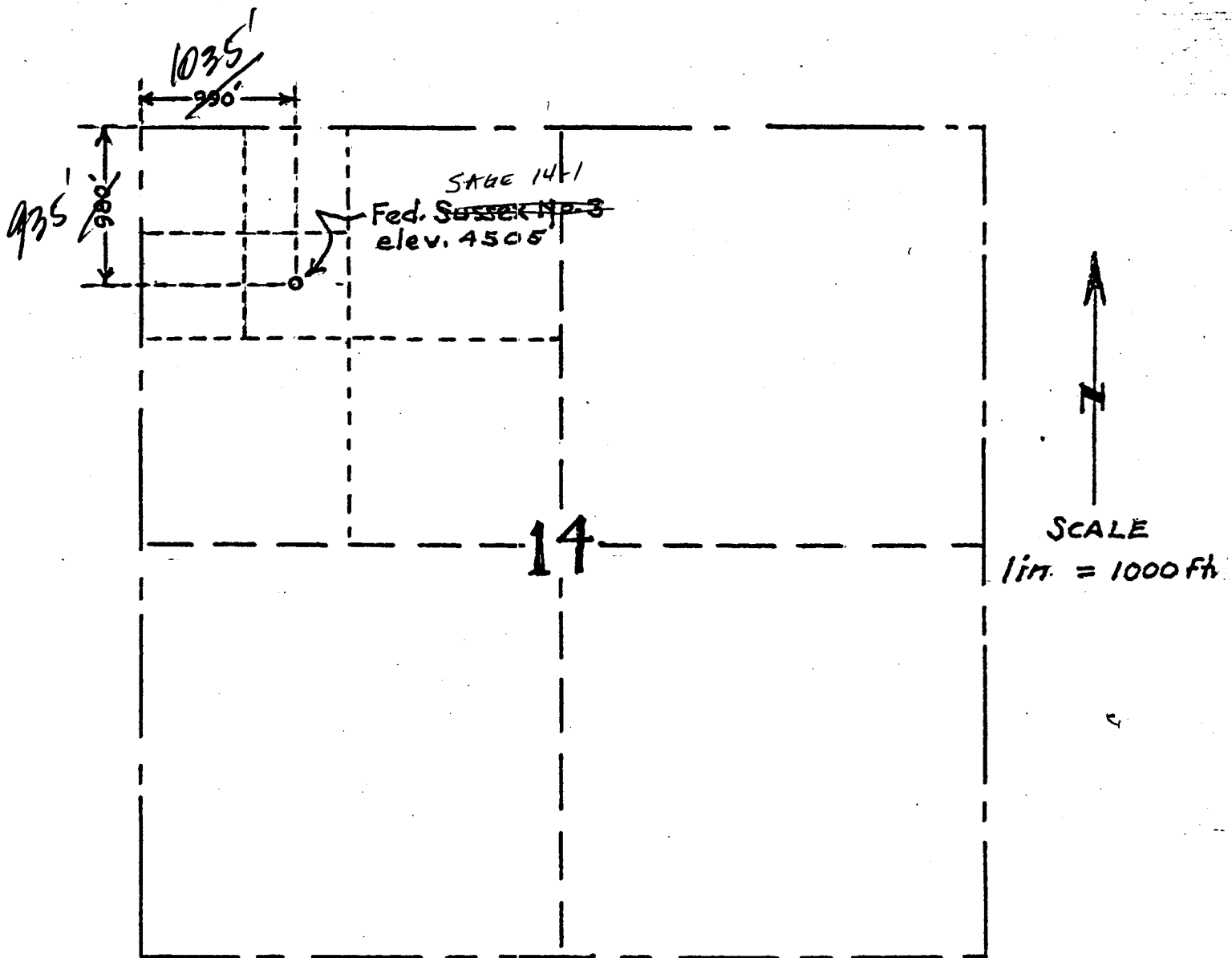
WELL SPACING

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

WELL LOCATION  
Fed. Sussex No. 3  
in the

SE 1/4 NW 1/4 NW 1/4 of Sec. 14, T20S, R24E of the S.L.M.  
986 ft. South of the North line and 990 ft. East of the  
West line of said Sec. 14.

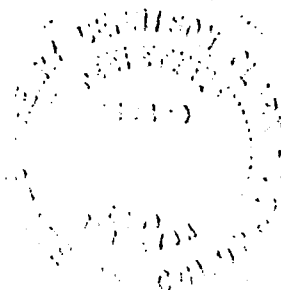


Oct 14, 1977

Surveyed, drawn and certified by H. D. Clark

Signed Henry D. Clark

Colo. Reg. Land Surveyor No. 689



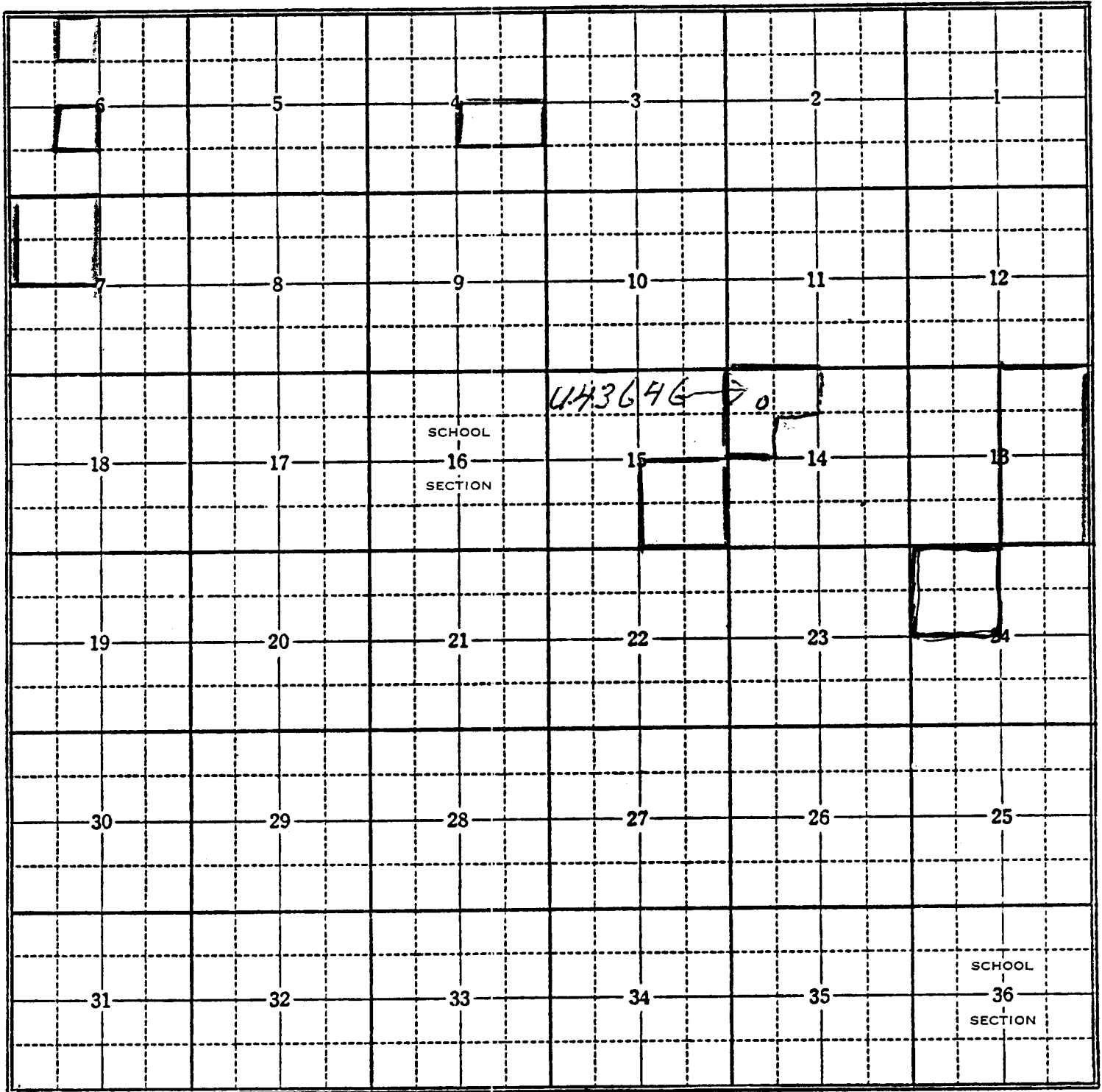
Date of Plat. - *Aug 28-85*

*Grand* County,

Township *20 S.*

Range *34 E.*

No. 912.—Bradford Publishing Co., 1824-46 Stout Street, Denver, Colorado—10-78



*1156 Acres in Lease*

SCALE.

32 chains to one-half inch.

WALTER BROADHEAD  
1645 N. 7th St.  
Grand Junction, Colorado 81501

Re: Well No. Fed Survey No 3 SAGE 14-1  
Sec. 14, T20S, R24E, SLB&M  
Grand County, Utah  
Lease: U-17666 U-43646

SURFACE USE PLAN

Geographical: 8 miles east of Cisco, Utah

Terrain: Low, rolling hills of Mancos shale.

Vegetation: Very sparse.

Surface Water: None. This is dry, desolate, desert country.

1. Existing Roads: Existing roads are 15-18 feet wide, with native ground as surface material. This is primarily Mancos shale with a little Cretaceous gravel in some places.

The included map shows all access roads and roads within a several mile radius of the locations.

There are no immediate plans for improvement of existing roads. If commercial production is found and road improvement is needed, it will be considered at the appropriate time.

2. Planned Access Roads: The map indicates all necessary access roads be constructed which will be to the same physical characteristics as existing roads - 15-18 feet wide with native Mancos Shale as surface with maximum grades not to exceed 3-4%. There will be no culverts required and no major cuts and fills required for access to any of the wells applied for. No fence cuts or cattle guards will be required.
3. Location of Existing Wells: As you can see from the map, existing wells have been located upon the map. The status of the wells is generally indicated on the map by the manner in which the well is marked. There are no water wells or disposal wells. The wells applied for in this application have been referenced in two directions with reference stakes set at 100 and 150 feet in two directions giving a total reference of 300 feet for each well.

WALTER BROADHEAD  
1645 N. 7th St.  
Grand Junction, Colorado 81501

Re: Well No. Fed. Sussex No 3

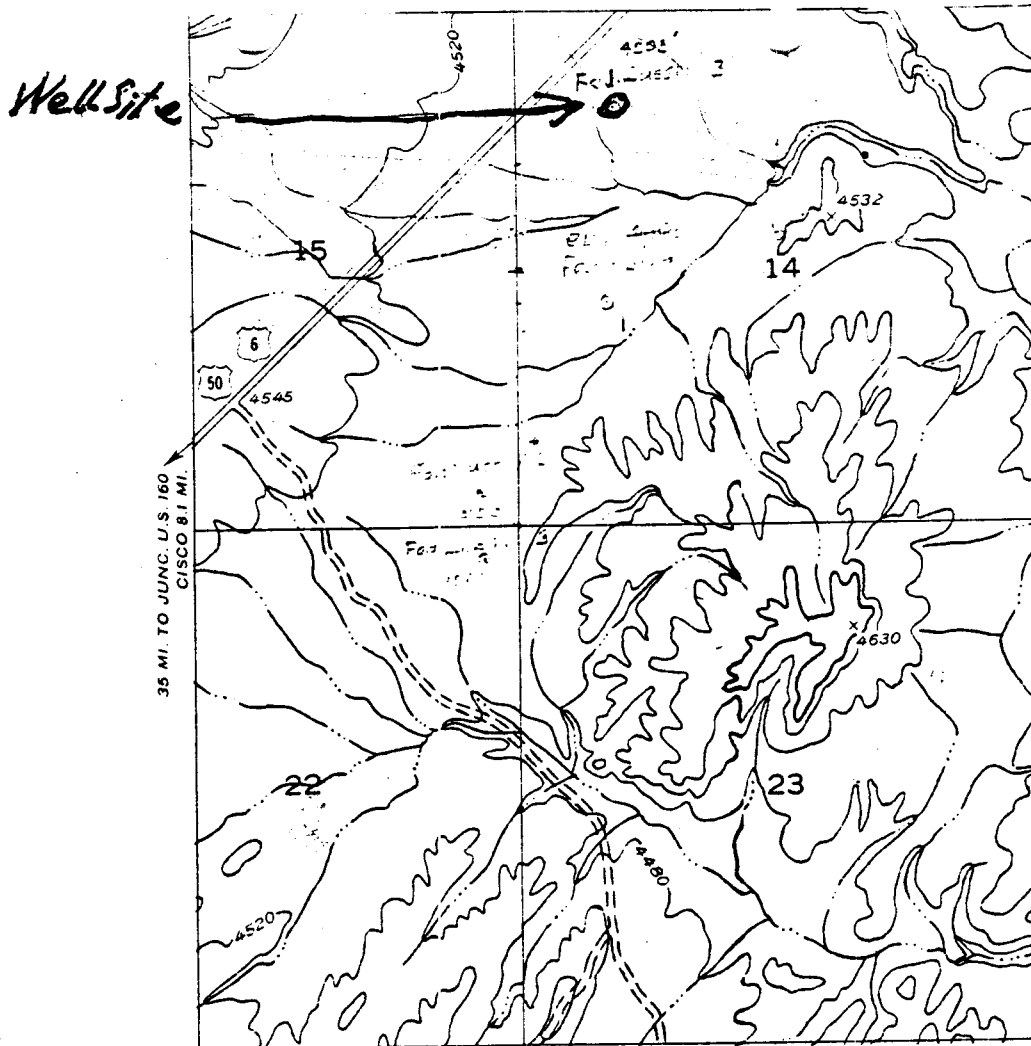
Sec. 12, T20S, R24E, SLB&M

Grand County, Utah

Lease: 11-17606

PRESSURE MONITORING AND CONTROL DATA  
SEVEN POINT PLAN

1. Surface Casing: Set at ~~200'~~ 100'  
Size 7"  
Weight 17 lb.  
Length Range 2  
Grade J-55 new. Tested to 3000 psig.
2. Casing Heads:  
Series 600 - 1500 psi working pressure.
3. Production Casing:  
Size 4-1/2"  
Weight 9.5 lb.  
Length Range 3  
Grade J-50, new, tested to 3000 psig.
4. Pressure Control:  
BOP Regan Torus BOP  
Series 600 - Tested to 3000 psig.  
Rams One size fits all - even blind.  
Will use fill, kill and choke lines.
5. Auxiliary Pressure Control:
  - a. Kelly cocks.
  - b. Check valve at bit.
  - c. Monitoring equipment on mud system.
  - d. A sub on floor with a full opening valve to be stabbed into drill pipe when Kelly is out of string.
6. Anticipated Bottom Hole Pressure:  
550 psig.
7. The Type of Drilling Fluid:  
Air until gas encountered. GEL  
Mud up with ~~Polymer~~ mud with NaCl and CaCl<sub>2</sub> as weighting agent - 10.5 to 11.00 lb. per gal. as required.



# LOCATION AND VICINITY MAP

FOR

COMPANY Walter D. Broadhead

LEASE U-17606 U43646

WELL NO. Feb Sussex No. 3 Aug 14-1

SEC. 14 T 20S R 24E.

LOCATION 990 1035 FEET FROM West LINE

2970 935 FEET FROM South LINE  
NORTH

ELEVATION \_\_\_\_\_ GR

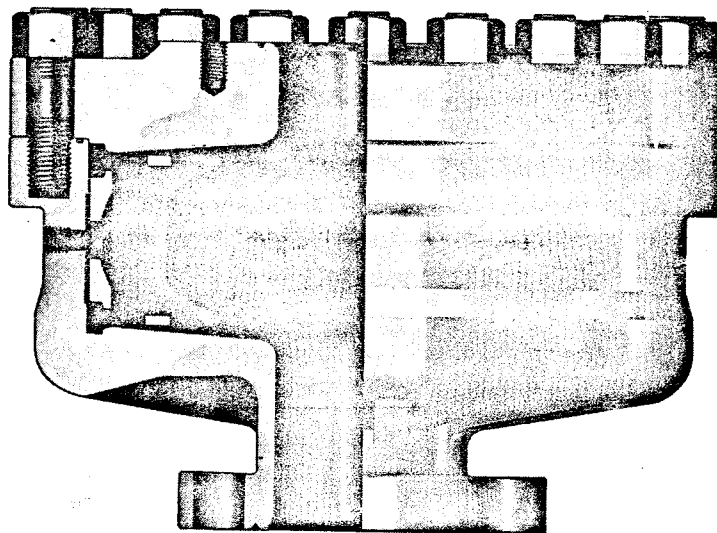
USGS QUADRANGLE Westwater 4 SW Plat  
Walter D Broadhead

**REGAN BLOWOUT PREVENTERS**

The Regan Torus Blowout Preventer is used primarily on production and workover rigs for well control up to 3000 PSI working pressure

**DESIGN FEATURES**

- a. The Torus Preventer is designed for minimum height to facilitate its use with production and workover rigs.
- b. The rubber packer will conform to any object in the well bore. Sealing ability is not affected by minor damage to the inner bore.
- c. The packer will seal an open hole at full working pressure.
- d. The dual packer design increases the reliability of the preventer since the outer rubber is never exposed to the well bore. Under ordinary service, the outer packer is rarely replaced.



**TORUS BLOWOUT PREVENTER**  
PATENTED

**SPECIFICATIONS**

Nominal Size	Test Pressure (psi)	DIMENSIONS (in.)			Weight (lb.)	End Flanges (1)	R/RX Ring Grooves	Side Outlet
		Outside Diameter	Thru Bore	Overall Height				
6	3000	27	7 $\frac{1}{16}$	19 $\frac{3}{4}$	1360	Nom. 6	45	None 2" L.P.
	6000	28 $\frac{3}{4}$	7 $\frac{1}{16}$	21 $\frac{3}{4}$	1950	Nom. 6	45	

(1) Bottom flange holes elongated for use with either 2000 or 3000 psi API-6B flange. (Also can be used with obsolete Ser. 400 API flange.) Top flange normally studded for 3000 psi API-6B flange unless otherwise speci-

UNITED STATES  
DEPARTMENT OF THE INTERIOR

## GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER ☐SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Walter D. Broadhead

## 3. ADDRESS OF OPERATOR

1645 North 7th St. Grand Junction, Colo. 81501

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

980 ft. south of the North line and 990 ft. East of  
At proposed prod. zone the West line of said Sec. 14.

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

7 miles Northeast of Cisco, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

330'

## 16. NO. OF ACRES IN LEASE

1428.15 1106

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

10

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.19. PROPOSED DEPTH  
80020. ROTARY OR CABLE TOOLS  
Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

22. APPROX. DATE WORK WILL START\*  
Sept. 8, 1985

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-3/4"	7" new	17 lb.	100'	25 SX Circulated
6-1/4"	4-1/2" new	9.5 lb.	800'	40 SX

Surface Formation: MANCOS

Propose to test Dakota &amp; Cedar Mountain Formations

Surface Use Plan Attached:

Dakota 450 Oil Note: Water Sands not anticipated

Buckhorn 750 Oil

Pressure Control: Schematic attached showing BOP, Kill lines, check  
valves and pressure ratings. Seven Point Plan also  
attached.

Logging: IES and FDC. No coring planned

Hazards: Experience does not indicate that abnormal pressure or  
Hydrogen Sulfide will be encountered.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

Walter D. Broadhead

TITLE

Operator

DATE Aug. 28, 1985

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

J. C. Delano Backus

TITLE

Acting DISTRICT MANAGER

DATE

03 OCT 1985

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

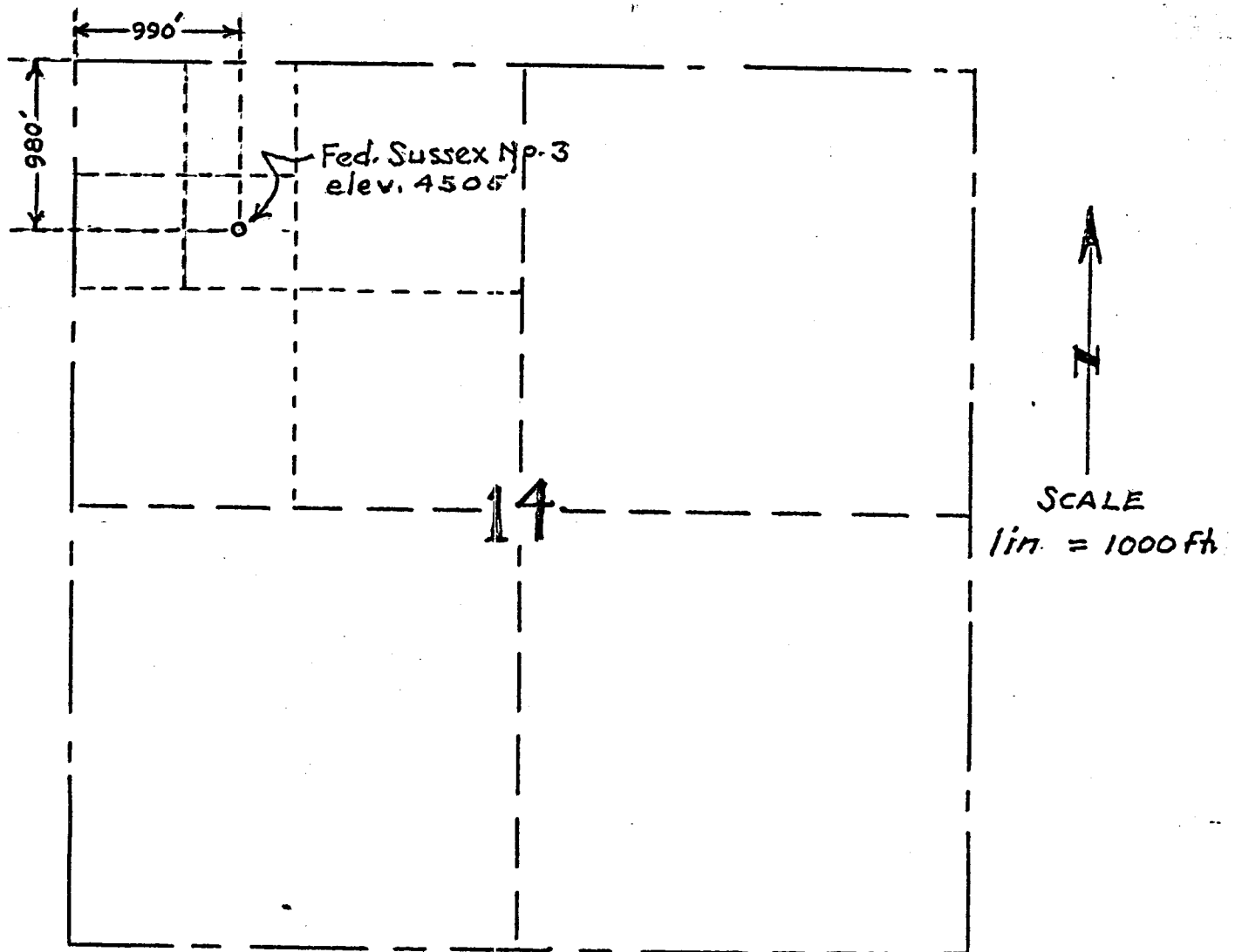
\*See Instructions On Reverse Side

FLARING OR VENTING OF  
GAS IS SUBJECT OF NTL 4-8  
DATED 1/1/80

REC'D MDO AUG 30 1985

WELL LOCATION  
Fed. Sussex No. 3

in the  
SE 1/4 NW 1/4 of Sec. 14, T20S, R24E of the S.L.M.  
980 ft. South of the North line and 990 ft. East of the  
West line of said Sec. 14



Oct 14, 1977

Surveyed, drawn and certified by H. D. Clark

Signed Henry Denison Clark

Colo. Reg. Land Surveyor No. 689



Walter D. Broadhead  
Well No. Sage 14-1  
Sec. 14, T. 20 S., R. 24 E.  
Grand County, Utah  
Lease U-43646

CONDITIONS OF APPROVAL

A. DRILLING PROGRAM

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Order 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to the field representative to insure compliance.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Office. If operations are to be suspended, prior approval of the District Office will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the Area Office within a minimum of 24 hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within 24 hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

In accordance with Onshore Order No. 1 this well will be reported on Form 3160-6, "Monthly Report of Operations", starting with the month in which operations commence and continued each month until the well is plugged and abandoned. This report will be sent to the District Office, P.O. Box 970, Moab, Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Area Office in accordance with requirements of NTL-3A.

If a replacement rig is needed for completion operations, A Sundry Notice (Form 3160-5) to that effect will be filed for prior approval from the District Office, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergency situations verbal approval to bring on a replacement rig will be approved through the District Office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

If the well is to be completed for production the Area Office is to be contacted in order to set up a pre-production conference. When the well is placed in a producing status the District Office is to be notified by telegram or other written communication within five working days.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

No well abandonment operations will be commenced without the prior approval of the District Office. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Office. A Subsequent Report of Abandonment (Form 3160-5) will be sent to the District Office within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Office, or the appropriate surface managing agency. Upon completion of approved plugging, a dry hole marker will be erected in accordance with 43 CFR 3162.6. The top of the marker will be closed or capped. The following minimum information will be permanently placed on the marker; "Fed" or "Ind", as applicable, "Lease number", "Well number", location of well by 1/41/4 section, township, and range.

B. SURFACE USE PROGRAM

In addition to these stipulations listed below, the supplemental stipulations drafted for the Sussex No. 3 will also be adhered to and are part of this permit.

The operator will contact the Grand Resource Area at (801) 259-8193, forty-eight (48) hours prior to beginning any dirt work on this location.

Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed will be approved by the Area Manager in advance.

Immediately upon completion of drilling, the location, and surrounding areas will be cleared of all remaining debris, materials, trash, and junk not required for production.

Produced waste water will be confined to a unlined pit for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.

All loading lines and valves will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three (3) months on new meter installations and at least quarterly thereafter. The Area Manager will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration reports will be submitted to the Resource Area Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

All permanent (onsite for six (6) months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earth tone color to match the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six (6) months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors will be as follows:

Juniper/Sage Green

The operator or his contractor will notify the Grand Resource Area at (801) 259-8193 forty-eight (48) hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

The following seed mixture will be used:

<u>Species</u>		<u>lbs/acre</u>
<u>Grasses</u>		
Sporobolus cryptandrus	Sand dropseed	2
Hilaria jamesii	Galleta (Curlygrass)	1
Oryzopsis hymenoides	Indian ricegrass	2
<u>Forbs</u>		
Melilotus officinalis	Yellow sweetclover	1
Medicago sativa	Alfalfa	1
	(Spreador II, Nomad, Ladak)	
<u>Shrubs</u>		
Atriplex canescens	Fourwing saltbush	2
	(White greasewood)	
Eurotia lanata	Winterfat (Whitesage)	<u>2</u>
		11 lbs/acre

Broadcast seed will be applied at double the above rate.

Final location release will be issued when the seeding is shown to be successful (when perennial vegetation is established).

Your contact with the District Office is:

Greg Noble, Petroleum Engineer      Office Phone: (801)259-6111

Home Phone: \_\_\_\_\_

District Address:

82 East Dogwood, P.O. Box 970  
Moab, Utah 84532

Your contact with the Grand Resource Area Office is:

Jeff Robbins      Office Phone: (801)259-8193

Home Phone: 259-7964

Area Office Address:

Sand Flats Road, P.O. Box M  
Moab, Utah 84532



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

October 3, 1985

Walter D. Broadhead  
1645 North 7th Street  
Grand Junction, Colorado 81501

Gentlemen:

Re: Well No. Sage 14-1 - NW NW Sec. 14, T. 20S, R. 24E  
935' FNL, 1035' FWL - Grand County, Utah

Approval to re-enter the above-referenced oil well is hereby granted in accordance with the Order of Cause No. 102-16B dated November 15, 1979, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

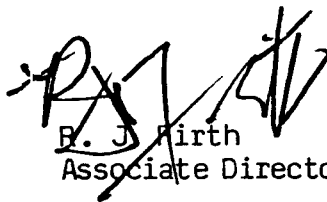
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2  
Walter D. Broadhead  
Well No. Sage 14-1  
October 3, 1985

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-019-30401.

Sincerely,

A handwritten signature in black ink, appearing to be "R. J. Firth", written over a printed name and title.

R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals

3162 (U-065)  
(U-43646)

JAN 09 1987

DIVISION OF  
OIL, GAS & MINING

Moab District  
P. O. Box 970  
Moab, Utah 84532

JAN 8 1987

012123

Mr. Walter D. Broadhead  
1645 North 7th Street  
Grand Junction, CO 81501

43-019-30401

Re: Rescinding Application for  
Permit to Drill  
Well No. Sage 14-1  
Sec. 14, T. 20 S., R. 24 E.  
Grand County, Utah  
Lease U-43646

Gentlemen:

The Application for Permit to Drill the referenced well was approved on October 3, 1985. Since that date, no known activity has transpired at the approved location.

Applications for permit to drill are effective for a period of one year. In view of the foregoing, this office is rescinding the approval of the referenced application.

Should you intend to drill this location at a future date, a new application for permit to drill must be submitted.

If you have any questions, please contact the Branch of Fluid Minerals (801) 259-6111.

Sincerely yours,  
/S/ GENE NODINE

District Manager

cc:  
State of Utah, Division of Oil, Gas and Mining ✓  
Grand Resource Area

bcc:  
U-942, Utah State Office

CFreudiger/cf 1/6/87



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

January 27, 1987

Walter D. Broadhead  
1645 North 7th Street  
Grand Junction, Colorado 81501

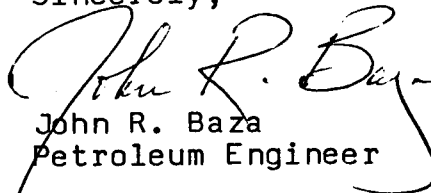
Gentlemen:

RE: Well No. Sage #14-1, Sec.14, T.20S, R.24E, Grand County, Utah,  
API NO. 43-019-30401

In concert with action taken by the U.S. Bureau of Land Management, approval to drill the above referenced well is hereby rescinded. A new Application for Permit to Drill must be filed with this office for approval, prior to future drilling of the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

  
John R. Baza  
Petroleum Engineer

sb

cc: BLM-Moab

D. R. Nielson

R. J. Firth

Well file

0327T-45

870528